

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/ES03/00332

## A. CLASSIFICATION OF SUBJECT MATTER

IPC <sup>7</sup> B 62 J 6/20, 23/00, 27/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC <sup>7</sup> B 62 J+

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CIBEPAT, EPODOC, WPI, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ES 1027262 U (A. SELLES GARCIA) 16.07.1994. The whole document.	1,2
X	US 3945336 A (HARRIS) 23.03.1976. The whole document.	1,2
X A	US 4342280 A (ASHWORTH) 03.08.1982. Column 2, lin 59 - column 4, line 45, figures.	1,2 3
X A	US 3967575 A (COUTTS) 06.07.1976. The whole document.	1,2 3
A	US 4747664 A (SLAUGHTER) 31.05.1988. Column 1, lines 43- 68, figures.	1,3
A	US 2586643 A (GARLOW) 19.02.1952. The whole document.	1-3

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

21 October 2003 (21.10.03)

Date of mailing of the international search report

31 October 2003 (31.10.03)

Name and mailing address of the ISA/

SPTO

Authorized officer

Facsimile No.

Telephone No.

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/ES03/00332

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4586454 A (HEDQUIST et al.) 06.05.1986. <b>The whole document.</b>	1,2
A	US 4038935 A (MARGILOFF) 02.08.1977. <b>Column1, figures.</b>	1,2
A	DE 29609065 U1 (REINHOLD LORENZEN) 08.08.1996. <b>The whole document.</b>	1,2

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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: **4 and 5**  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International Application No  
**PCT/ES03/00332**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
ES 1027262 U	16.07.1994	NONE	
US 3945336 A	23.03.1976	DE 2600984 A	21.07.1977
US 4342280 A	03.08.1982	NONE	
US 3967575 A	06.07.1976	NONE	
US 4747664 A	31.05.1988	NONE	
US 2586643 A	19.02.1952	NONE	
US 4586454 A	06.05.1986	NONE	
US 4038935 A	02.08.1977	NONE	
DE 29609065 U1	08.08.1996	NONE	